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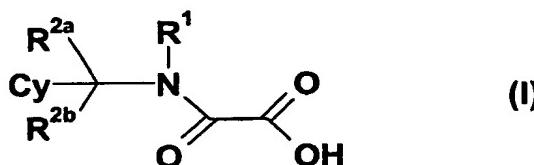
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/064376 A1 (54) Title: SUBSTITUTED METHYLENE AMIDE DERIVATIVES AS MODULATORS OF PROTEIN TYROSINE PHOSPHATASES (PTPS)



(57) Abstract: The present invention is related to substituted methylene amide derivatives of formula (I) and use thereof for the treatment and/or prevention of metabolic disorders mediated by insulin resistance or pyperglycemia, comprising diabetes type I and/or II, inadequate glucose tolerance, insulin resistance, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia, obesity, polycystic ovary syndrome (PCOS). In particular, the present invention is related to the use of substituted methylene

amide derivatives of formula (I) to modulate, notably to inhibit the activity of PTPs. Also the present invention relates to a method of treating diabetes type II, obesity and to regulate the appetite of mammals. The present invention is furthermore related to novel substituted methylene amide derivatives and method of preparation thereof. Formula (I).

INTERNATIONAL SEARCH REPORT

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| A. CLASSIFICATION OF SUBJECT MATTER | | | | | |
| IPC 7 | C07C237/42 | A61K31/16 | A61P3/10 | C07C233/56 | C07D211/26 |
| | C07D333/34 | C07C317/32 | | C07C255/60 | |

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Patent family members are listed in annex.

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